



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

November 20, 1995

Mr. D. L. Farrar, Manager  
Nuclear Regulatory Services  
Commonwealth Edison Company  
Executive Towers West III  
1400 Opus Place, Suite 500  
Downers Grove, IL 60515

SUBJECT: SAFETY EVALUATION OF 1-HOUR FIRE-RATED DARMATT KM-1 FIRE BARRIER SYSTEM APPLICATION AT THE LASALLE COUNTY STATION (TAC NOS. M85563 AND M85564)

Dear Mr. Farrar:

By letter dated April 6, 1994, Commonwealth Edison Company (ComEd, the licensee) informed the staff that it intended to replace the Thermo-Lag 330-1 fire barriers at LaSalle County Station, Units 1 and 2, with the Darmatt KM-1 fire barrier system. In addition, the licensee submitted its fire test plan for the proposed replacement fire barrier system. By letters dated May 18 and June 22, 1994, the staff requested additional information concerning the test plan, the test laboratory, and the quality controls for the test program. By letters dated June 2 and July 14, 1994, the licensee responded to these requests.

By letter dated September 8, 1994, the licensee submitted a report entitled "Test Report for a 1-Hour Fire Test on Darmatt KM-1 Fire Protection System for Site Configurations at the LaSalle Nuclear Power Plant." The purpose of this test was to qualify the replication of a plant-specific raceway configuration protected by the Darmatt KM-1 fire barrier system to the fire endurance testing and acceptance criteria of Generic Letter 86-10, Supplement 1, "Fire Endurance Test Acceptance Criteria for Fire Barrier Systems Used to Separate Redundant Safe Shutdown Trains Within the Same Fire Area." By letter dated November 17, 1994, the staff requested additional information regarding test specimen construction, thermocouple placement, and certain observations made during the test. By letter dated June 2, 1995, the licensee responded to this request. Finally, during a conference call with the licensee on August 1, 1995, the staff requested clarifications. The licensee responded by letter dated August 28, 1995.

We have completed our review of the endurance test report and the supplemental supporting information. On the basis of our review, we have concluded that the fire test assembly met the acceptance criteria specified in GL 86-10,

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D. Farrar

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Supplement 1. Our safety evaluation (SE) is enclosed. The ampacity derating and seismic capabilities evaluations are not included in the enclosed SE. These SEs will be provided to you by separate correspondence at a later date.

Sincerely,

Original signed by

Robert M. Latta, Project Manager  
Project Directorate III-2  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket Nos. 50-373, 50-374

Enclosure: Safety Evaluation

cc w/encl: See next page

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D. L. Farrar  
Commonwealth Edison Company

LaSalle County Station  
Unit Nos. 1 and 2

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